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## A Listing of the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

- 1. (Previously Presented) A method of managing one or more local resource properties, each having a value, by one or more managed network devices in a network comprising a network management system and a central data store, the method comprising the steps of:
  - (a) monitoring the value of said one or more local resource properties;
  - (b) querying the local resource properties, determining a state, value and quality of the local resource properties and assessing a priority of the local resource properties;
  - (c) generating a learning event report comprising the value and a priority test of the learning event of at least one of the one or more local resource properties; and
  - (d) transmitting the learning event report to the central data store, wherein the value of at least one of the one or more local resource properties is recorded at the central data store and made available to the network management system for asynchronous processing, wherein the value of at least one of the one or more local resource properties is uploaded by the one or more managed network devices, via a local resource manager, independent of retrieval of the value by the network management system, wherein a frequency of uploading the learning event report is determined based on a priority of a learning event associated with the learning event report.
- 2. (Original) The method of claim 1, wherein the central data store is a directory server.
- 3. (Original) The method of claim 2, wherein the step of transmitting the learning event report to the central data store comprises the step of exchanging one or more Lightweight Directory Access Protocol messages.
- 4. (Original) The method of claim 1, wherein the one or more local resource properties comprise one or more internal resource properties.

- 5. (Original) The method of claim 2, wherein the one or more internal resource properties comprise one or more properties selected from the group consisting of: managed network device hardware configurations including network modules installed; managed network device software installations including the types of software, software version levels, and the date when such information was last updated; and managed network device identity information including device name, serial number of the chassis or primary management processor, location information, type of device, network interface module name, network interface module slot number, network interface module part number, network interface module hardware revision level, network interface module serial number, and network interface module date of manufacture.
- (Original) The method of claim 1, wherein the one or more local resource properties comprise one or more connectivity properties.
- 7. (Original) The method of claim 6, wherein the one or more connectivity properties comprise properties selected from the group consisting of: the OSI network model layer 2 and layer 3 addresses of an edge device, identification of the network interface module where the edge device is connected, speed of a port where the edge device is connected, one or more network protocols being used by the edge devices or systems, and an administrative and operational state of the link connecting to the edge device.
- (Original) The method of claim 1, wherein the step of monitoring comprises the steps of detecting one or more learning events and periodically polling for a current value of the one or more local resource properties.
- (Original) The method of claim 8, wherein the step of periodically polling comprises the step
  of polling for the value of the one or more learning event properties at a polling interval
  between 5 seconds and 5 minutes.

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10. (Original) The method of claim 8, wherein the learning event report consists essentially of a value of at least one of the one or more local resource properties different from the value of the at least one of the one or more local resource properties of a preceding learning event report.

- 11. (Original) The method of claim 8, wherein the method further includes, after the step of detecting one or more learning events, assessing the priority of the learning event detected.
- 12. (Original) The method of claim 11, wherein the method further includes, after assessing the priority of the learning event detected, transmitting the learning event report to the central data store substantially immediately.
- 13. (Original) The method of claim 1, wherein the method further includes, prior to monitoring value of one or more local resource properties, the step of acquiring the most recent value of each of the one or more local resource properties from an internal memory when the one or more managed network devices are initialized.
- 14. (Previously Presented) A managed network device characterized by one or more local resource properties, the managed network device being operatively connected to a network comprising a network management system, one or more managed network devices, and a central data store, the device comprising a local resource processor for:
  - (a) monitoring the value of one or more local resource properties;
  - (b) detecting a change to the one or more local resource properties;
  - (c) querying the local resource properties, determining a state, value and quality of the local resource properties and assessing a priority of the local resource properties;
  - (d) generating one or more learning event reports, each learning event report comprising the value of one or more local resource properties; and
  - (e) transmitting the one or more learning event reports to the central data store; wherein the value of at least one of the one or more local resource properties is recorded at the central data store and made available to the network management system for

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asynchronous processing, wherein the value of at least one of the one or more local resource properties is uploaded by the one or more managed network devices, via a local resource manager, independent of retrieval of the value by the network management system, wherein a frequency of uploading the one or more learning event reports is determined based on a priority of each of one or more learning events associated with the one or more learning event reports.

- 15. (Original) The managed network device of claim 14, wherein the central data store is a directory server enabled to exchange one or more Lightweight Directory Access Protocol messages.
- 16. (Original) The managed network device of claim 14, wherein the one or more local resource properties comprise internal resource properties.
- 17. (Original) The managed network device of claim 16, wherein the one or more internal resource properties comprise one or more properties selected from the group consisting of: managed network device hardware configurations including network modules installed; managed network device software installations including the types of software, software version levels, and the date when such information was last updated; and managed network device identity information including device name, serial number of the chassis or primary management processor, location information, type of device, network interface module name, network interface module slot number, network interface module part number, network interface module hardware revision level, network interface module serial number, and network interface module date of manufacture.
- 18. (Original) The managed network device of claim 14, wherein the one or more local resource properties comprise one or more connectivity properties.
- 19. (Original) The managed network device of claim 18, wherein the one or more connectivity properties comprise properties selected from the group consisting of: the OSI network model

layer 2 and layer 3 addresses of an edge device, identification of the network interface module where the edge device is connected, speed of a port where the edge device is connected, one or more network protocols being used by the edge devices or systems, and an administrative and operational state of the link connecting to the edge device.

- 20. (Original) The managed network device of claim 14, wherein the managed network device is a switching device further comprising:
  - (a) a plurality of network interface modules;
  - one or more packet processors for performing packet parsing and ingress packet processing necessary to perform switching routing; and
  - one or more memory devices for retaining one or more rules sets for switching and routing.
- 21. (Previously Presented) A asynchronous network resource management system comprising:
  - (a) at least one central data store;
  - (b) one or more local resource properties, each having a value; a plurality of managed network devices adapted to monitor the value of each of the one or more local resource properties, query the local resource properties, determine a state, the value and quality of the local resource properties and assessing a priority of the local resource properties;
  - (c) and transmit the value of each of the one or more local resource properties to the at least one central data store; and
  - (d) at least one network management system adapted to retrieve the value of each of the one or more local resource properties from the at least one central data store, wherein the value of at least one of the one or more local resource properties is uploaded by the one or more managed network devices, via a local resource manager, independent of retrieval of the value by the network management system, wherein a frequency of uploading the one or more learning event reports is determined based on a priority of each of one or more learning events associated with the one or more learning event reports.

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22. (Original) The asynchronous network resource management system of claim 21, wherein the one or more local resource properties comprise internal resource properties.

23. (Original) The asynchronous network resource management system of claim 21, wherein the

one or more internal resource properties comprise one or more properties selected from the

group consisting of: managed network device hardware configurations including network

modules installed; managed network device software installations including the types of

software, software version levels, and the date when such information was last updated; and

managed network device identity information including device name, serial number of the

chassis or primary management processor, location information, type of device, network

interface module name, network interface module slot number, network interface module

part number, network interface module hardware revision level, network interface module

serial number, and network interface module date of manufacture.

24. (Original) The asynchronous network resource management system of claim 21, wherein the

one or more local resource properties comprise one or more connectivity properties.

 $25. \ (Original) \ The \ asynchronous \ network \ resource \ management \ system \ of \ claim \ 24, wherein \ the$ 

one or more connectivity properties comprise properties selected from the group consisting

of: the OSI network model layer 2 and layer 3 addresses of an edge device, identification of

the network interface module where the edge device is connected, speed of a port where the

edge device is connected, one or more network protocols being used by the edge devices or

systems, and an administrative and operational state of the link connecting to the edge device.

device.

26. -27. (Canceled)